

December 29, 2016

Joseph Laydon Town Planner Grafton Municipal Center 30 Providence Road Grafton, MA 01519 T 508-856-032 F 508-856-035 gravesengineering.con

Subject:

Brookmeadow Village – Phases 1A, 1B, 2, 4A, 4B and 4C Updated Engineer's Opinion Construction Cost Estimates

Dear Joe:

Per the request of the Grafton Planning Board and the applicant, Graves Engineering, Inc. (GEI) generated updated engineer's opinion construction cost estimates for Phases 1A, 1B, 2, 4A, 4B and 4C of the Brookmeadow Village residential subdivision. The estimates are based upon site visits performed by GEI through December 22, 2016.

These estimates supersede our previous Phase 1A, Phase 1B, Phase 2, Phase 4A and Phase 4B estimates dated January 25, 2016 and our previous Phase 4C estimate dated July 8, 2016.

Please find attached the point-by-point totals of the cost estimates based upon the following:

- The estimates are for the proposed work within the right-of-way and grading, etc. associated with road and utility construction only. The estimates do not include any of the proposed work associated with lot development.
- The estimates are based upon a definitive plan entitled "Brookmeadow Village" dated July 20, 2005 and last revised April 23, 2007, prepared by Guerriere & Halnon, Inc.
- The estimates contain two sections: the total cost of the project and the cost of work remaining as of our last site visit.
- Phase 1A consists of Brookmeadow Lane station 0+00 to station 22+50, Taft Mill Road station 26+25 to station 29+35, Detention Basin #1, Detention Basin #4 and sewer pump station upgrades. Phase 1A is the western portion of "Phase 1 Road" shown on Sheet 42 of the definitive plan.
- Phase 1B consists of Taft Mill Road station 0+00 to station 13+00 and Detention Basin #3. Phase 1B is the eastern portion of "Phase 1 Road" shown on Sheet 42 of the definitive plan.
- Phase 2 consists of Taft Mill Road station 13+00 to station 26+25 and Detention Basin #2 as noted as "Phase 2 Road" on Sheet 42 of the definitive plan.

- Phase 4A consists of Brookmeadow Lane station 22+50 to station 27+00. Phase 4A is the southwestern portion of "Phase 4" shown on Sheet 42 of the definitive plan.
- Phase 4B consists of Brookmeadow Lane station 27+00 to station 33+50 and the entire length of Klondike Road. Phase 4B is the portion of Phase 4 between the middle of Lot 18 and the lot line separating Lots 24 and 25 plus all of Klondike Road as shown on Sheet 42 of the definitive plan.
- Phase 4C consists of Brookmeadow Lane station 33+50 to the cul-de-sac ending at station 37+30. Phase 4C is the portion of Phase 4 from near the intersection of Brookmeadow Lane and Klondike Road to the end of the cul-de-sac as shown on Sheet 42 of the definitive plan.
- With the exception of one bound (to be installed off Klondike Road), open space bounds throughout the subdivision have been installed.
- Please note, work has been completed in Phases 1A, 1B and 2. As such, the updated cost estimates for these phases have been "zeroed out".
- There has been a 20% administration and contingency added to the estimate total for inspections, contract administration and inflation.

The purpose of our construction estimates is to provide the Grafton Planning Board with an "engineer's opinion" of the possible construction value for the project. Our estimates are based upon typical municipally-bid public works projects subject to state wage rates. We use state wage rates as the municipality will be required to pay prevailing state wage rates should they ultimately become responsible for completing the project. The rates indicated within this estimate reflect current market conditions.

In addition, the construction estimates should not be construed to be a final list of items that are not complete. At each draw down requested by the developer, individual line items will be evaluated for completeness, unit prices may be revised to reflect the current cost of work and additional items may be added to or deleted from the estimates if needed. Streets and applicable amenities are not considered approved until they are accepted by Town vote as public streets or until the final release by the Planning Board for private streets.

If you have any questions or comments concerning this estimate, please feel free to contact our office.

Very truly yours,

Graves Engineering, Inc.

Jeffrey M. Walsh, P.E.

Vice President

Attachments (6)

cc: W. Greg Burrill; W.G.B Construction



\$0.00

SITE DEVEL	OPMENT/S	UBDIVISION				T 508-856-03
CONST	RUCTION E	BUDGET			1	
						F 508-856-03
PROJECT: BROOKMEADOW VILLAGE - PH					grav	esengineering.co
BROOKMEADOW LANE, STATION 0+00 TO						
TAFT MILL ROAD, STATION 26+25 TO 29+	35 & BASIN	I #1				
DATE: December 29, 2016						
Budget of work to be completed.						
The following construction budget is based up	on the Defin	itive Plan last	revised:	04/23/07		
This estimate is based upon site visits perform				12/22/16		
					CONCTRUC	STICN
			1000/ 000	TECTIMATE	CONSTRUC	
	UNITS	\$/UNIT	QUANTITY	T ESTIMATE VALUE	REMAIN'G - QUANTITY	VALUE
DIQUE OF WAY	UNITS	\$/UNII	QUANTITI	VALUE	QUANTITY	VALUE
RIGHT OF WAY	Λο	£2 000 00	2.0	00,000,00		CO 00
Clear & Grub	Acres	\$3,000.00	3.0	\$9,000.00	0	\$0.00
Earth Excavation	Cu. Yds.	\$4.00	13,000	\$52,000.00	0	\$0.00
Common Fill		\$6.00	8,000	\$48,000.00	0	\$0.00
Finish Grading (Grass plots only)	Sq. Yds.	\$1.50	5,700	\$8,550.00	0	\$0.00
Loam and Seeding	Sq. Yds.	\$4.00	5,700	\$22,800.00	0	\$0.00
Trees	Each	\$250.00	126	\$31,500.00	0	\$0.00
ROADWAY						
Prep Subgrade	Sq. Yds.	\$1.20	7,400	\$8,880.00	0	\$0.00
Gravel Base	Cu. Yds.	\$12.00	2,500	\$30,000.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	7,400	\$11,100.00	0	\$0.00
Binder Course (2.75" Compacted Thk'ness)	Tons	\$65.00	1,060	\$68,900.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$65.00	625	\$40,625.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$110.00	0	\$0.00	0	\$0.00
Granite Curb Inlets	Each	\$200.00	24	\$4,800.00	0	\$0.00
Vertical Granite Curb	Lin. Ft.	\$25.00	190	\$4,750.00	0	\$0.00
Sloped Granite Edging	Lin. Ft.	\$18.00	4,300	\$77,400.00	0	\$0.00
Granite Transition Pieces	Each	\$250.00	40	\$10,000.00	0	\$0.00
Traffic Signage	Each	\$350.00	4	\$1,400.00	0	\$0.00
Street Lights	Each	\$1,100.00	4	\$4,400.00	0	\$0.00
Grade Roadside Swales	Sq. Yds.	\$2.00	2,800	\$5,600.00	0	\$0.00
Raise Structures (Sewers, Drains, etc.)	Each	\$250.00	60	\$15,000.00	0	\$0.00
SITE WORK						
Clear & Grub (slopes outside ROW)	Acres	\$3,000.00	1.2	\$3,600.00	0	\$0.00
Gravel Base (12") for Basin Access	Cu. Yds.	\$12.00	90	\$1,080.00	0	\$0.00
Earth Excavation (slopes outside ROW)	Cu. Yds.	\$4.00	6,400	\$25,600.00	0	\$0.00
Common Fill (slopes outside ROW)	Cu. Yds.	\$6.00	3,000	\$18,000.00	0	\$0.00
Finish Grading (slopes outside ROW)	Sq. Yds.	\$1.50	5,850	\$8,775.00	0	\$0.00
Loam & Seeding (slopes outside ROW)	Sq. Yds.	\$4.00	5,850	\$23,400.00	0	\$0.00
Silt Fences/Haybales, Install	Lin. Ft.	\$7.00	2,900	\$20,300.00	0	\$0.00
Silt Fences/Haybales, Maintain	Lin. Ft.	\$2.00	0	\$0.00	0	\$0.00
Clear & Grub (Detention Basin Areas)	Acres	\$3,000.00	1.4	\$4,200.00	0	\$0.00
Bulk Excavation Detention Basin Areas	Cu. Yds.	\$5.00	8,500	\$42,500.00	0	\$0.00
Loam & Seeding (Detention Basin Areas)	Sq. Yds.	\$4.00	11,200	\$44,800.00	0	\$0.00
Detention Basin Fencing	Lin. Ft.	\$20.00	1,640	\$32,800.00	0	\$0.00
Stone Walls (Near Wildlife Lindernass)	Lin Et	\$20.00		\$8,800,00	0	\$0.00

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Stone Walls (Near Wildlife Underpass)

\$20.00

440

\$8,800.00

0

Lin. Ft.

					CONSTRUCT	
				T ESTIMATE	REMAIN'G -	
	UNITS	\$/UNIT	QUANTITY	VALUE	QUANTITY	VALUE
SIDEWALK	0 1/1	# 4.00	1.100	#4.000.00		# 0.00
Prep Subgrade	Sq. Yds.	\$1.20	1,160	\$1,392.00	0	\$0.00
Gravel Base (6")	Cu. Yds.	\$10.00	200	\$2,000.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	1,160	\$1,740.00	0	\$0.00
Concrete (4")	Cu. Yds.	\$100.00	130	\$13,000.00	0	\$0.00
DRAINAGE						
12" Reinforced Concrete Pipe	Lin. Ft.	\$25.00	2,420	\$60,500.00	0	\$0.00
15" Reinforced Concrete Pipe	Lin. Ft.	\$29.00	140	\$4,060.00	0	\$0.00
18" Reinforced Concrete Pipe	Lin. Ft.	\$35.00	140	\$4,900.00	0	\$0.00
24" Reinforced Concrete Pipe	Lin. Ft.	\$40.00	450	\$18,000.00	0	\$0.00
30" Reinforced Concrete Pipe	Lin. Ft.	\$45.00	30	\$1,350.00	0	\$0.00
8'x2' Box Culvert (Wildlife Underpass)	Lin. Ft.	\$250.00	75	\$18,750.00	0	\$0.00
15" RCP Flared End Section	Each	\$375.00	1	\$375.00	0	\$0.00
18" RCP Flared End Section	Each	\$425.00	1	\$425.00	0	\$0.00
Subdrains	Lin. Ft.	\$20.00	2,260	\$45,200.00	0	\$0.00
Head Walls	Each	\$400.00	6	\$2,400.00	0	\$0.00
Drain Manholes	Each	\$2,000.00	26	\$52,000.00	0	\$0.00
Drain Invert (Concrete or Brick)	Each	\$150.00	26	\$3,900.00	0	\$0.00
Catch Basins	Each	\$2,000.00	24	\$48,000.00	0	\$0.00
Drop Inlets	Each	\$2,000.00	2	\$4,000.00	0	\$0.00
Basin Outlet Structures	Each	\$3,000.00	2	\$6,000.00	0	\$0.00
Catch Basin Frame & Grate	Each	\$500.00	24	\$12,000.00	0	\$0.00
Drain Manhole Rim & Cover	Each	\$450.00	26	\$12,000.00	0	\$0.00
	Sq. Yds.	\$50.00	310	\$15,500.00	0	\$0.00
Rip Rap Stormceptors	Each	\$3,500.00	2	\$7,000.00	0	\$0.00
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WATER						
8" DI Pipe	Lin. Ft	\$40.00	2,610	\$104,400.00	0	\$0.00
8" Valves	Each	\$800.00	5	\$4,000.00	0	\$0.00
Hydrants	Each	\$3,500.00	5	\$17,500.00	0	\$0.00
Water Service	Each	\$250.00	29	\$7,250.00	0	\$0.00
Water Booster Station	Allow	\$250,000.00	1	\$250,000.00	0	\$0.00
SEWER						
8" SDR 35 Sewer	Lin. Ft	\$40.00	2,460	\$98,400.00	0	\$0.00
Manholes	Each	\$2,200.00	14	\$30,800.00	0	\$0.00
Laterals: 6" SDR 35 PVC	Each	\$650.00	29	\$18,850.00	0	\$0.00
Sewer Brick Invert	Each	\$100.00	14	\$1,400.00	0	\$0.00
Pump Station Upgrade	Allow	\$50,000.00	1	\$50,000.00	0	\$0.00
ELECTRIC COMMUNICATIONS						
Electrical/CATV/Tel Conduit	Lin.Ft.	\$40.00	2,600	\$104,000.00	0	\$0.00
MOOFILLANFOLIS						
MISCELLANEOUS Rounds Granits	Each	\$300.00	69	\$20,700.00	0	\$0.00
Bounds, Granite			3			\$0.00
Acceptance Plans	Sheet	\$1,000.00		\$3,000.00		
As Built Plans	Sheet	\$1,750.00	7	\$12,250.00	0	\$0.00

	UNITS				CONSTRUCTION REMAIN'G - 12/22/16	
		\$/UNIT	QUANTITY	VALUE	QUANTITY	VALUE
		Subtotal:		\$1,745,302.00		\$0.00
209		\$349,060.40		\$0.00		
PROJECT: BROOKMEADOW VILLAGE - PHA	SE 1A	TOTAL:	*	\$2,094,362.40	*	\$0.00
* This estimate was prepared to assist the Pla	anning Bo	ard in establ	ishing the a	mount of suret	y for this proj	ect.
In accordance with Grafton Subdivision Ru	les and Re	egulations, th	ne surety va	lue established	by the Board	may
vary from this estimate.						



SITE DEVEL	OPMENT/SI	UBDIVISION			1	T 508-856-03
CONS	TRUCTION E	BUDGET				
						F 508-856-03
PROJECT: BROOKMEADOW VILLAGE - PI					grave	esengineering.c
TAFT MILL ROAD, STATION 0+00 TO 13+00	& BASIN #	3				
DATE: December 29, 2016						
Budget of work to be completed.						
The following construction budget is based up		itive Plan last	revised:	04/23/07		
This estimate is based upon site visits perform	ned through:			12/22/16		
					CONSTRUC	
	UNITS	\$/UNIT	100% COS	ST ESTIMATE VALUE	REMAIN'G - QUANTITY	12/22/16 VALUE
RIGHT OF WAY	ONITO	Ψ/ΟΙΝΙΙ	COANTIT	VALUE	QUANTITI	VALUE
Clear & Grub	Acres	\$3,000.00	5.0	\$15,000.00	0	\$0.00
Earth Excavation	Cu. Yds.	\$4.00	9,600	\$38,400.00	0	\$0.00
Common Fill	Cu. Yds.	\$6.00	23,700	\$142,200.00	0	\$0.00
Finish Grading (Grass plots only)	Sq. Yds.	\$1.50	2,900	\$4,350.00	0	\$0.00
Loam and Seeding	Sq. Yds.	\$4.00	2,900	\$11,600.00	0	\$0.00
Trees	Each	\$250.00	51	\$12,750.00	0	\$0.00
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ROADWAY						
Prep Subgrade	Sq. Yds.	\$1.20	3,800	\$4,560.00	0	\$0.00
Gravel Base	Cu. Yds.	\$12.00	1,300	\$15,600.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	3,800	\$5,700.00	0	\$0.00
Binder Course (2.75" Compacted Thk'ness)	Tons	\$65.00	580	\$37,700.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$65.00	320	\$20,800.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$110.00	0	\$0.00	0	\$0.00
Granite Curb Inlets	Each	\$200.00	10	\$2,000.00	0	\$0.00
Vertical Granite Curb	Lin. Ft.	\$25.00	102	\$2,550.00	0	\$0.00
Sloped Granite Edging	Lin. Ft.	\$18.00	2,560	\$46,080.00	0	\$0.00
Granite Transition Pieces	Each	\$250.00	22	\$5,500.00	0	\$0.00
Traffic Signage	Each	\$350.00	2	\$700.00	0	\$0.00
Street Lights	Each	\$1,100.00	2	\$2,200.00	0	\$0.00
Grade Roadside Swales	Sq. Yds.	\$2.00	1,400	\$2,800.00	0	\$0.00
Raise Structures (Sewers, Drains, etc.)	Each	\$250.00	34	\$8,500.00	0	\$0.00
Retaining Walls	Sq. Ft.	\$25.00	10,100	\$252,500.00	0	\$0.00
Guard Rails	Lin. Ft.	\$15.00	480	\$7,200.00	0	\$0.00
Fence	Lin. Ft.	\$20.00	560	\$11,200.00	0	\$0.00
SITE WORK						
Clear & Grub (slopes outside ROW)	Acres	\$3,000.00	1.8	\$5,280.00	0	\$0.00
Gravel Base (12") for Basin Access	Cu. Yds.	\$12.00	100	\$1,200.00	0	\$0.00
Earth Excavation (slopes outside ROW)	Cu. Yds.	\$4.00	5,500	\$22,000.00	0	\$0.00
Common Fill (slopes outside ROW)	Cu. Yds.	\$6.00	15,200	\$91,200.00	0	\$0.00
Finish Grading (slopes outside ROW)	Sq. Yds.	\$1.50	8,600	\$12,900.00	0	\$0.00
Loam & Seeding (slopes outside ROW)	Sq. Yds.	\$4.00	8,600	\$34,400.00	0	\$0.00
Silt Fences/Haybales, Install	Lin. Ft.	\$7.00	2,100	\$14,700.00	0	\$0.00
Silt Fences/Haybales, Maintain	Lin. Ft.	\$2.00	0	\$0.00	0	\$0.00
Clear & Grub (Detention Basin Areas)	Acres	\$3,000.00	1.1	\$3,240.00	0	\$0.00
Bulk Excavation Detention Basin Areas	Cu. Yds.	\$5.00	3,500	\$17,500.00	0	\$0.00

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					CONSTRUCT	ION
	UNITS	\$/UNIT	100% COST ESTIMATE QUANTITY VALUE		REMAIN'G - 12/22/16 QUANTITY VALUE	
Loam & Seeding (Detention Basin Areas)	Sq. Yds.	\$4.00	5,300	\$21,200.00	0	\$0.00
Detention Basin Fencing	Lin. Ft.	\$20.00	750	\$15,000.00	0	\$0.00
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SIDEWALK						
Prep Subgrade	Sq. Yds.	\$1.20	590	\$708.00	0	\$0.00
Gravel Base (6")	Cu. Yds.	\$10.00	100	\$1,000.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	590	\$885.00	0	\$0.00
Concrete (4")	Cu. Yds.	\$100.00	50	\$5,000.00	0	\$0.00
DDAINAGE						
DRAINAGE	Lia Et	00.00	200	\$ 500.00	0	\$0.00
4" PVC Slow Drain Pipe	Lin. Ft.	\$20.00	26	\$520.00	0	\$0.00
12" Reinforced Concrete Pipe	Lin. Ft.	\$25.00	400	\$10,000.00		
18" Reinforced Concrete Pipe	Lin. Ft.	\$35.00	1,150	\$40,250.00	0	\$0.00
24" Reinforced Concrete Pipe	Lin. Ft.	\$40.00	65	\$2,600.00	0	\$0.00
8'x10' Culvert	Allow	\$90,500.00	1	\$90,500.00	0	\$0.00
Subdrains	Lin. Ft.	\$20.00	400	\$8,000.00	0	\$0.00
Head Walls	Each	\$400.00	3	\$1,200.00	0	\$0.00
Drain Manholes	Each	\$2,000.00	11	\$22,000.00	0	\$0.00
Drain Invert (Concrete or Brick)	Each	\$150.00	11	\$1,650.00	0	\$0.00
Catch Basins	Each	\$2,000.00	10	\$20,000.00	0	\$0.00
Drop Inlets	Each	\$2,000.00	2	\$4,000.00	0	\$0.00
Catch Basin Frame & Grate	Each	\$500.00	12	\$6,000.00	0	\$0.00
Drain Manhole Rim & Cover	Each	\$450.00	11	\$4,950.00	0	\$0.00
Rip Rap	Sq. Yds.	\$50.00	120	\$6,000.00	0	\$0.00
WATER						
8" DI Pipe	Lin. Ft	\$40.00	1,320	\$52,800.00	0	\$0.00
8" Valves	Each	\$800.00	3	\$2,400.00	0	\$0.00
Hydrants	Each	\$3,500.00	3	\$10,500.00	0	\$0.00
Water Service	Each	\$250.00	9	\$2,250.00	0	\$0.00
SEWER						
8" D.I. Sewer	Lin. Ft	\$40.00	466	\$18,640.00	0	\$0.00
8" SDR 35 Sewer	Lin. Ft	\$40.00	925	\$37,000.00	0	\$0.00
Manholes	Each	\$2,200.00	9	\$19,800.00	0	\$0.00
Laterals: 6" SDR 35 PVC	Each	\$650.00	9	\$5,850.00	0	\$0.00
Sewer Brick Invert	Each	\$100.00	9	\$900.00	0	\$0.00
ELECTRIC COMMUNICATIONS						
Electrical/CATV/Tel Conduit	Lin.Ft.	\$40.00	1,315	\$52,600.00	0	\$0.00
Electrical/CAT V/Tel Conduit	LIII.I L.	φ40.00	1,313	Ψ32,000.00	U	Ψ0.00
MISCELLANEOUS	-	000000	0.4	040,000,00	0	A 0.00
Bounds, Granite	Each	\$300.00	34	\$10,200.00		\$0.00
Acceptance Plans	Sheet	\$1,000.00	2	\$2,000.00		\$0.00
As Built Plans	Sheet	\$1,750.00	4	\$7,000.00		\$0.00
Wetland Replication Areas	Allow	\$10,000.00	1	\$10,000.00	0	\$0.00

	UNITS	\$/UNIT	100% COST QUANTITY		CONSTRUCTION REMAIN'G - 12/22/16 QUANTITY VALUE	
		Subtotal:		\$1,345,713.00		\$0.00
20	% Continge	ency/Inflation:		\$269,142.60		\$0.00
PROJECT: BROOKMEADOW VILLAGE - PHA	ASE 1B	TOTAL:	*	\$1,614,855.60		\$0.00
* This estimate was prepared to assist the PI	anning Bo	ard in establ	ishing the a	mount of suret	y for this pro	ject.
In accordance with Grafton Subdivision Ru	les and Re	egulations, th	ne surety va	lue established	by the Board	d may
vary from this estimate.						



SITE DEVEL	OPMENT/S	UBDIVISION				T 508-856-03
CONS	TRUCTION E	BUDGET]	F 508-856-03
PROJECT: BROOKMEADOW VILLAGE - P	CT 10 C 20 C				grav	esengineering.c
TAFT MILL ROAD, STATION 13+00 TO 26+2	25 & BASIN	#2				
DATE D						
DATE: December 29, 2016			-			
Budget of work to be completed.						
The fellowing construction by death has a discount	an the Defin	iti in Dian Inch		0.4/0.2/0.7		
The following construction budget is based up This estimate is based upon site visits perforn		itive Pian iast	revisea:	04/23/07 12/22/16		
This estimate is based upon site visits periori	ied tillough.		-	12/22/10		
					CONSTRUC	TION
			100% COS	ST ESTIMATE	REMAIN'G -	
	UNITS	\$/UNIT	QUANTITY		QUANTITY	VALUE
RIGHT OF WAY			-			
Clear & Grub	Acres	\$3,000.00	1.5	\$4,560.00	0	\$0.00
Earth Excavation	Cu. Yds.	\$4.00	7,800	\$31,200.00	0	\$0.00
Common Fill	Cu. Yds.	\$6.00	8,600	\$51,600.00	0	\$0.00
Finish Grading (Grass plots only)	Sq. Yds.	\$1.50	3,000	\$4,500.00	0	\$0.00
Loam and Seeding	Sq. Yds.	\$4.00	3,000	\$12,000.00	0	\$0.00
Trees	Each	\$250.00	60	\$15,000.00	0	\$0.00
ROADWAY						
Prep Subgrade	Sq. Yds.	\$1.20	3,850	\$4,620.00	0	\$0.00
Gravel Base	Cu. Yds.	\$12.00	1,300	\$15,600.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	3,850	\$5,775.00	0	\$0.00
Binder Course (2.75" Compacted Thk'ness)	Tons	\$65.00	600	\$39,000.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$65.00	330	\$21,450.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$110.00	0	\$0.00	0	\$0.00
Granite Curb Inlets	Each	\$200.00	8	\$1,600.00	0	\$0.00
Vertical Granite Curb	Lin. Ft.	\$25.00	100	\$2,500.00	0	\$0.00
Sloped Granite Edging	Lin. Ft.	\$18.00	2,500	\$45,000.00	0	\$0.00
Granite Transition Pieces	Each	\$250.00	18	\$4,500.00	0	\$0.00
Traffic Signage	Each	\$350.00	2	\$700.00	0	\$0.00
Street Lights	Each	\$1,100.00	1	\$1,100.00	0	\$0.00
Grade Roadside Swales	Sq. Yds.	\$2.00	1,660	\$3,320.00	0	\$0.00
Raise Structures (Sewers, Drains, etc.)	Each	\$250.00	25	\$6,250.00	0	\$0.00
Retaining Walls	Sq. Ft.	\$25.00	2,640	\$66,000.00	0	\$0.00
Guard Rails	Lin. Ft.	\$15.00	190	\$2,850.00	0	\$0.00
Fence	Lin. Ft.	\$20.00	380	\$7,600.00	0	\$0.00
SITE WODY			-			
SITE WORK	Acros	\$3,000.00	1.0	\$3,000.00	0	\$0.00
Clear & Grub (slopes outside ROW) Gravel Base (12") for Basin Access	Acres Cu. Yds.	\$3,000.00	90	\$1,080.00	0	\$0.00
Earth Excavation (slopes outside ROW)	Cu. Yds.	\$4.00	4,200	\$16,800.00	0	\$0.00
Common Fill (slopes outside ROW)	Cu. Yds.	\$6.00	4,200	\$24,600.00	0	\$0.00
Finish Grading (slopes outside ROW)	Sq. Yds.	\$1.50	4,900	\$7,350.00	0	\$0.00
Loam & Seeding (slopes outside ROW)	Sq. Yds.	\$4.00	4,900	\$19,600.00	0	\$0.00
Silt Fences/Haybales, Install	Lin. Ft.	\$7.00	2,100	\$14,700.00	0	\$0.00
Silt Fences/Haybales, Maintain	Lin. Ft.	\$2.00	0	\$0.00	0	\$0.00
Clear & Grub (Detention Basin Areas)	Acres	\$3,000.00	0.6	\$1,800.00	0	\$0.00
Bulk Excavation Detention Basin Areas	Cu. Yds.	\$5.00	8,000	\$40,000.00	0	\$0.00

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					CONSTRUC	TION
	UNITS	\$/UNIT	100% COST QUANTITY	VALUE	REMAIN'G - QUANTITY	12/22/16 VALUE
Loam & Seeding (Detention Basin Areas)	Sq. Yds.	\$4.00	2,800	\$11,200.00	0	\$0.00
Detention Basin Fencing	Lin. Ft.	\$20.00	520	\$10,400.00	0	\$0.00
Stone Walls (Near Wildlife Crossing)	Lin. Ft.	\$20.00	310	\$6,200.00	0	\$0.00
SIDEWALK						
Prep Subgrade	Sq. Yds.	\$1.20	590	\$708.00	0	\$0.00
Gravel Base (6")	Cu. Yds.	\$10.00	100	\$1,000.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$1.50	590	\$885.00	0	\$0.00
Concrete (4")	Cu. Yds.	\$100.00	70	\$7,000.00	0	\$0.00
DRAINAGE						
4" PVC Slow Drain Pipe	Lin. Ft.	\$25.00	76	\$1,900.00	0	\$0.00
12" Reinforced Concrete Pipe	Lin. Ft.	\$25.00	1,014	\$25,350.00	0	\$0.00
18" Reinforced Concrete Pipe	Lin. Ft.	\$35.00	280	\$9,800.00	0	\$0.00
8' x 4' Culvert (Wildlife Underpass)	Allow	\$45,000.00	1	\$45,000.00	0	\$0.00
6' x 5' Culvert	Allow	\$27,500.00	1	\$27,500.00	0	\$0.00
Subdrains	Lin. Ft.	\$20.00	1,600	\$32,000.00	0	\$0.00
Head Walls	Each	\$400.00	3	\$1,200.00	0	\$0.00
Drain Manholes	Each	\$2,000.00	10	\$20,000.00	0	\$0.00
Drain Invert (Concrete or Brick)	Each	\$150.00	10	\$1,500.00	0	\$0.00
Catch Basins	Each	\$2,000.00	8	\$16,000.00	0	\$0.00
Drop Inlets	Each	\$2,000.00	1	\$2,000.00	0	\$0.00
Catch Basin Frame & Grate	Each	\$500.00	9	\$4,500.00	0	\$0.00
Drain Manhole Rim & Cover	Each	\$450.00	10	\$4,500.00	0	\$0.00
Rip Rap	Sq. Yds.	\$50.00	210	\$10,500.00	0	\$0.00
WATER						
8" DI Pipe	Lin. Ft	\$40.00	1,325	\$53,000.00	0	\$0.00
8" Valves	Each	\$800.00	3	\$2,400.00	0	\$0.00
Hydrants	Each	\$3,500.00	3	\$10,500.00	0	\$0.00
Water Service	Each	\$250.00	16	\$4,000.00	0	\$0.00
SEWER						*
8" D.I. Sewer	Lin. Ft	\$40.00	470	\$18,800.00	0	\$0.00
8" SDR 35 Sewer	Lin. Ft	\$40.00	925	\$37,000.00	0	\$0.00
Manholes	Each	\$2,200.00	9	\$19,800.00	0	\$0.00
Laterals: 6" SDR 35 PVC	Each	\$650.00	16	\$10,400.00	0	\$0.00
Sewer Brick Invert	Each	\$100.00	9	\$900.00	0	\$0.00
ELECTRIC COMMUNICATIONS						
Electrical/CATV/Tel Conduit	Lin.Ft.	\$40.00	1,325	\$53,000.00	0	\$0.00
MISCELLANEOUS						
Bounds, Granite	Each	\$300.00	39	\$11,700.00	0	\$0.00
Wetland Replication Areas	Allow	\$6,000.00	1	\$6,000.00		\$0.00
Acceptance Plans	Sheet	\$1,000.00	3	\$3,000.00	0	\$0.00
As Built Plans	Sheet	\$1,750.00	2	\$3,500.00		\$0.00

	UNITS	\$/UNIT	100% COST ESTIMATE		CONSTRUCTION REMAIN'G - 12/22/16 QUANTITY VALUE	
		Subtotal:		\$948,798.00		\$0.00
20%	20% Contingency/Inflation:			\$189,759.60		\$0.00
PROJECT: BROOKMEADOW VILLAGE - PHAS	SE 2	TOTAL:	*	\$1,138,557.60		\$0.00
* This estimate was prepared to assist the Pla	nning Bo	ard in establ	ishing the a	mount of suret	y for this proj	ect.
In accordance with Grafton Subdivision Rule	es and Re	egulations, th	ne surety va	lue established	by the Board	l may
vary from this estimate.						

SITE DEVEL						
CONST	FRUCTION E	BUDGET				
PROJECT: BROOKMEADOW VILLAGE - PH						
BROOKMEADOW LANE, STATION 22+50	TO 27+00					
DATE: December 29, 2016						
Budget of work to be completed.						
The following construction budget is based up	on the Defini	tivo Plan last	rovicod:	04/23/07		
This estimate is based upon site visits perform		live Flail last	reviseu.	12/22/16		
This estimate is based upon site visits periori	ied tillougii.			12/22/10		
					CONSTRUC	TION
			100% COS	ST ESTIMATE	REMAIN'G	
	UNITS	\$/UNIT	QUANTIT		QUANTITY	VALUE
RIGHT OF WAY						
Clear & Grub	Acres	\$8,000.00	0.5	\$4,000.00	0	\$0.00
Earth Excavation	Cu. Yds.	\$6.00	1,100	\$6,600.00	0	\$0.00
Common Fill	Cu. Yds.	\$8.00	840	\$6,720.00	0	\$0.00
Finish Grading (Grass plots only)	Sq. Yds.	\$1.50	1,000	\$1,500.00	0	\$0.00
Loam and Seeding	Sq. Yds.	\$5.00	1,000	\$5,000.00	0	\$0.00
Trees	Each	\$400.00	23	\$9,200.00	0	\$0.00
ROADWAY						
Prep Subgrade	Sq. Yds.	\$1.50	1,400	\$2,100.00	0	\$0.00
Gravel Base	Cu. Yds.	\$30.00	470	\$14,100.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$3.00	1,400	\$4,200.00	0	\$0.00
Binder Course (2.75" Compacted Thk'ness)	Tons	\$90.00	190	\$17,100.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$90.00	110	\$9,900.00	0	\$0.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$110.00	0	\$0.00	110	\$12,100.00
Granite Curb Inlets	Each	\$300.00	4	\$1,200.00	0	\$0.00
Sloped Granite Edging	Lin. Ft.	\$20.00	750	\$15,000.00	0	\$0.00
Granite Transition Pieces	Each	\$250.00	8	\$2,000.00	0	\$0.00
Grade Roadside Swales	Sq. Yds.	\$2.00	270	\$540.00	0	\$0.00
Raise Structures (Sewers, Drains, etc.)	Each	\$300.00	8	\$2,400.00	8	\$2,400.00
SITE WORK						
Clear & Grub (slopes outside ROW)	Acres	\$8,000.00	0.2	\$1,600.00	0	\$0.00
Earth Excavation (slopes outside ROW)	Cu. Yds.	\$6.00	200	\$1,200.00	0	\$0.00
Common Fill (slopes outside ROW)	Cu. Yds.	\$8.00	160	\$1,280.00	0	\$0.00
Finish Grading (slopes outside ROW)	Sq. Yds.	\$1.50	510	\$765.00	0	\$0.00
Loam & Seeding (slopes outside ROW)	Sq. Yds.	\$5.00	510	\$2,550.00	0	\$0.00
SIDEWALK		•				11 <u>*</u> 11 _ 1
Prep Subgrade	Sq. Yds.	\$1.50	200	\$300.00	0	\$0.00
Gravel Base (6")	Cu. Yds.	\$30.00	40	\$1,200.00	0	\$0.00
Fine Grade & Roll	Sq. Yds.	\$3.00	200	\$600.00	0	\$0.00
Concrete (4")	Cu. Yds.	\$150.00	25	\$3,750.00	0	\$0.00
DRAINAGE	1					1000
12" Reinforced Concrete Pipe	Lin. Ft.	\$50.00	72	\$3,600.00	0	\$0.00
18" Reinforced Concrete Pipe	Lin. Ft.	\$57.00	320	\$18,240.00	0	\$0.00
24" Reinforced Concrete Pipe	Lin. Ft.	\$80.00	150	\$12,000.00	0	\$0.00
Subdrains	Lin. Ft.	\$28.00	400	\$11,200.00	0	\$0.00

	\$/UNIT			CONSTRUC	
UNITS			VALUE	QUANTITY	VALUE
Each	\$2,400.00	2	\$4,800.00	0	\$0.00
Each	\$250.00	2	\$500.00	0	\$0.00
Each	\$2,300.00	4	\$9,200.00	0	\$0.00
Each	\$2,100.00	1	\$2,100.00	0	\$0.00
Each	\$600.00	5	\$3,000.00	0	\$0.00
Each	\$550.00	2	\$1,100.00	0	\$0.00
Lin. Ft	\$70.00	450	\$31,500.00	0	\$0.00
Each	\$3,700.00	1	\$3,700.00	0	\$0.00
Each	\$350.00	8	\$2,800.00	0	\$0.00
Lin. Ft	\$45.00	450	\$20,250.00	0	\$0.00
Each	\$3,000.00	2	\$6,000.00	0	\$0.00
Each	\$700.00	8	\$5,600.00	0	\$0.00
Each	\$250.00	2	\$500.00	0	\$0.00
Lin.Ft.	\$45.00	550	\$24,750.00	0	\$0.00
Each	\$315.00	2	\$630.00	0	\$0.00
Sheet	\$1,000.00	1	\$1,000.00	1	\$1,000.00
Sheet	\$1,900.00	1	\$1,900.00	1	\$1,900.00
	Subtotal		\$270 175 00		\$17,400.00
20% Conting			\$55,835.00		\$3,480.00
	Each Each Each Each Each Each Lin. Ft Each Each Each Lin. Ft Each Each Each Each Sheet Sheet	Each \$2,400.00 Each \$250.00 Each \$2,300.00 Each \$2,100.00 Each \$600.00 Each \$550.00 Lin. Ft \$70.00 Each \$3,700.00 Each \$3,700.00 Each \$3,000.00 Each \$250.00 Lin. Ft \$45.00 Each \$3,000.00 Each \$1,000.00 Sheet \$1,000.00 Subtotal:	UNITS \$/UNIT QUANTITY Each \$2,400.00 2 Each \$250.00 2 Each \$2,300.00 4 Each \$2,100.00 1 Each \$600.00 5 Each \$550.00 2 Lin. Ft \$70.00 450 Each \$3,700.00 1 Each \$350.00 8 Lin. Ft \$45.00 450 Each \$3,000.00 2 Each \$700.00 8 Each \$250.00 2 Lin.Ft. \$45.00 550 Each \$315.00 2 Sheet \$1,000.00 1 Sheet \$1,900.00 1 Subtotal:	Each \$2,400.00 2 \$4,800.00 Each \$250.00 2 \$500.00 Each \$2,300.00 4 \$9,200.00 Each \$2,100.00 1 \$2,100.00 Each \$600.00 5 \$3,000.00 Each \$550.00 2 \$1,100.00 Each \$3,700.00 1 \$3,700.00 Each \$350.00 8 \$2,800.00 Lin. Ft \$45.00 450 \$20,250.00 Each \$3,000.00 2 \$6,000.00 Each \$3,000.00 2 \$6,000.00 Each \$700.00 8 \$5,600.00 Each \$250.00 2 \$500.00 Lin.Ft. \$45.00 550 \$24,750.00 Lin.Ft. \$45.00 550 \$24,750.00 Sheet \$1,000.00 1 \$1,000.00 Sheet \$1,900.00 1 \$1,900.00 Sheet \$1,900.00 1 \$1,900.00	UNITS \$/UNIT QUANTITY VALUE QUANTITY Each \$2,400.00 2 \$4,800.00 0 Each \$250.00 2 \$500.00 0 Each \$2,300.00 4 \$9,200.00 0 Each \$600.00 5 \$3,000.00 0 Each \$550.00 2 \$1,100.00 0 Each \$550.00 2 \$1,100.00 0 Each \$3,700.00 1 \$3,700.00 0 Each \$3,000.00 2 \$6,000.00 0 Each \$700.00 8 \$5,600.00 0 Each \$700.00 8 \$5,600.00 0 Each \$250.00 2 \$500.00 0 Each \$250.00 2 \$6,000.00 0 Each \$700.00 1 \$1,000.00 1 Each \$315.00 2 \$630.00 0 Sheet \$1,000.00 1 \$1,000.00 1 Sheet \$1,900.00 1 \$1,900.00 1 Subtotal: \$279,175.00



SITE DEVELO	PMENT/SURUCTION B					T 508-856-
CONST	RUCTION B	ODGET				F 508-856-
PROJECT: BROOKMEADOW VILLAGE - PI	JASE AR				-	
BROOKMEADOW LANE, STATION 27+00 To		LONDIKE R	DAD STATI	ON 0+00 TO 12+50	gra	vesengineering

DATE: December 29, 2016						
Budgets of work for entire phase and for w	ork yet to be	completed.				
The following construction budget is based upo	on the Definit	tive Plan last	revised:	04/23/07		
This estimate is based upon site visits perform		live Flair last	ieviseu.	12/22/16	-	
This estimate is based upon site visits periorin	ca anoagn.			12/22/10		
					CONSTRUC	TION
			100% COS	T ESTIMATE	REMAIN'G -	12/22/16
	UNITS	\$/UNIT	QUANTITY		QUANTITY	VALUE
RIGHT OF WAY						3332-0
Clear & Grub	Acres	\$8,000.00	2.1	\$16,800.00	0	\$0.00
Earth Excavation	Cu. Yds.	\$6.00	14,300	\$85,800.00	0	\$0.00
Common Fill	Cu. Yds.	\$8.00	7,400	\$59,200.00	0	\$0.00
Finish Grading (Grass plots only)	Sq. Yds.	\$3.00	3,900	\$11,700.00	700	\$2,100.00
Loam and Seeding	Sq. Yds.	\$5.00	3,900	\$19,500.00	700	\$3,500.00
Trees	Each	\$400.00	92	\$36,800.00	36	\$14,400.00
ROADWAY	0- 1/4-	60.00	F F00	¢46 500 00	0	00.00
Prep Subgrade	Sq. Yds.	\$3.00	5,500	\$16,500.00	0	\$0.00
Gravel Base (12")	Cu. Yds.	\$30.00	1,800	\$54,000.00		\$0.00
Fine Grade & Roll	Sq. Yds.	\$3.50	5,500	\$19,250.00	0	\$0.00 \$0.00
Binder Course (2.75" Compacted Thkiness)	Tons	\$110.00	820 450	\$90,200.00	450	\$49,500.00
Top Course (1.5" Compacted Thk'ness)	Tons	\$110.00	12	\$49,500.00	2	\$600.00
Granite Curb Inlets Vertical Granite Curb	Each Lin. Ft.	\$300.00 \$40.00	200	\$3,600.00 \$8,000.00	0	\$0.00
			3,440	\$86,000.00	554	\$13,850.00
Sloped Granite Edging Granite Transition Pieces	Lin. Ft. Each	\$25.00 \$250.00	26	\$6,500.00	4	\$1,000.00
Street Lights	Each	\$2,000.00	3	\$6,000.00	0	\$0.00
Raise Structures (Sewers, Drains, etc.)	Each	\$300.00	35	\$10,500.00	35	\$10,500.00
Traffic Signage (Street Name, Stop)	Each	\$175.00	4	\$700.00	0	\$0.00
Trailic Signage (Street Name, Stop)	Lacii	\$175.00	-	\$100.00		Ψ0.00
SITE WORK						
Clear & Grub (slopes outside ROW)	Acres	\$8,000.00	1.0	\$8,000.00	0	\$0.00
Earth Excavation (slopes outside ROW)	Cu. Yds.	\$6.00	4,200	\$25,200.00	0	\$0.00
Common Fill (slopes outside ROW)	Cu. Yds.	\$8.00	3,100	\$24,800.00	0	\$0.00
Finish Grading (slopes outside ROW)	Sq. Yds.	\$3.00	4,800	\$14,400.00	0	\$0.00
Loam & Seeding (slopes outside ROW)	Sq. Yds.	\$5.00	4,800	\$24,000.00	0	\$0.00
SIDEWALK						
Prep Subgrade	Sq. Yds.	\$3.00	840	\$2,520.00	175	\$525.00
Gravel Base (6")	Cu. Yds.	\$30.00	140	\$4,200.00	30	\$900.00
Fine Grade & Roll	Sq. Yds.	\$3.50	840	\$2,940.00	175	\$612.50
Concrete (4")	Cu. Yds.	\$175.00	93	\$16,275.00	20	\$3,500.00
DRAINAGE	Lim Et	#FO 00	1.000	ØE0 000 00		#0.00
12" Reinforced Concrete Pipe	Lin. Ft.	\$50.00	1,000	\$50,000.00	0	\$0.00
18" Reinforced Concrete Pipe	Lin. Ft.	\$57.00	705	\$40,185.00	0	\$0.00
Drain Manholes	Each	\$2,400.00	12	\$28,800.00	0	\$0.00
Drain Invert (Concrete or Brick)	Each	\$250.00	12 12	\$3,000.00 \$27,600.00		\$0.00 \$0.00
Catch Basins Drop Inlets	Each Each	\$2,300.00 \$2,300.00	3	\$6,900.00	0	\$0.00

					CONSTRUC	
		\$/UNIT	100% COST ESTIMATE		REMAIN'G - 12/22/16	
	UNITS		QUANTITY	VALUE	QUANTITY	VALUE
Catch Basin Frame & Grate	Each	\$700.00	15	\$10,500.00	0	\$0.00
Drain Manhole Rim & Cover	Each	\$600.00	12	\$7,200.00	0	\$0.00
WATER						
8" DI Pipe	Lin. Ft	\$70.00	1,870	\$130,900.00	0	\$0.00
8" Valves	Each	\$1,400.00	3	\$4,200.00	0	\$0.00
Hydrants	Each	\$3,700.00	3	\$11,100.00	0	\$0.00
Water Service	Each	\$350.00	22	\$7,700.00	0	\$0.00
SEWER						
8" D.I. Sewer	Lin. Ft	\$70.00	350	\$24,500.00	0	\$0.00
8" SDR 35 Sewer	Lin. Ft	\$52.00	1,220	\$63,440.00	0	\$0.00
Manholes	Each	\$3,000.00	11	\$33,000.00	0	\$0.00
Laterals: 6" SDR 35 PVC	Each	\$700.00	21	\$14,700.00	0	\$0.00
Sewer Brick Invert	Each	\$250.00	11	\$2,750.00	0	\$0.00
Sewer Manhole Rim & Cover	Each	\$750.00	11	\$8,250.00	0	\$0.00
ELECTRIC COMMUNICATIONS						
Electrical/CATV/Tel Conduit	Lin.Ft.	\$45.00	1,920	\$86,400.00	0	\$0.00
MISCELLANEOUS						
Bounds, Granite (Roadway)	Each	\$315.00	26	\$8,190.00	4	\$1,260.00
Bounds, Granite (Open Space)	Each	\$315.00	33	\$10,395.00	1	\$315.00
Acceptance Plans	Sheet	\$1,000.00	3	\$3,000.00	3	\$3,000.00
As Built Plans	Sheet	\$1,900.00	4	\$7,600.00	4	\$7,600.00
		0.1.1.1		04 000 405 00		\$440.400.F0
	000/ 0 //	Subtotal:		\$1,293,195.00		\$113,162.50
		ency/Inflation:				\$22,632.50
PROJECT: BROOKMEADOW VILLAGE -		TOTAL:			*	\$135,795.00
	TOTAL	L (Rounded):			*	\$136,000.00
20% of "100% CO	ST ESTIMATE	" (Rounded):	*	\$259,000.00		
* This estimate was prepared to assist th	e Planning Bo	ard in establ	ishing the amo	ount of surety for	this project.	
In accordance with Grafton Subdivision						ļ.:
vary from this estimate.		- 3	July value	- January II		



DPMENT/SU	JBDIVISION				T 508-856
RUCTION B	UDGET				F 508-856
				gra	vesengineerin
J 37+30					
ork yet to be	e completed				
ork yet to be	e completed.				
on the Defini	tive Plan last	revised:	04/23/07		
			12/22/16		
				CONSTRUCTION	
				REMAIN'G -	12/22/16
UNITS	\$/UNIT	QUANTITY	VALUE	QUANTITY	VALUE
Acres		0.5	\$4,000.00	0	\$0.00
	***************************************				\$0.00
		2007020000		2,000,000	\$2,790.00
					\$4,650.00
Each	\$400.00	20	\$8,000.00	20	\$8,000.00
0	60.00	4.040	#2 020 00	0	\$0.00
	3.0000000000000000000000000000000000000				\$0.00
					\$0.00
					\$0.00
					\$0.00
15 (50)					\$12,100.00 \$900.00
					\$9,600.00
					\$10,500.00
					\$2,000.00
					\$0.00
				AT 10	\$3,000.00
Lacii	φοσο.σσ	10	ψο,σσσ.σσ	10	ψο,σσσ.σσ
Acres	\$8,000.00	0.4	\$3,200.00	0	\$0.00
Cu. Yds.		3,200		0	\$0.00
	\$3.00	2,000	\$6,000.00	0	\$0.00
Sq. Yds.	\$5.00	2,000	\$10,000.00	0	\$0.00
Sq. Yds.	\$3.00	180	\$540.00	180	\$540.00
Cu. Yds.	\$30.00	30	\$900.00	30	\$900.00
Sq. Yds.	\$3.50	180	\$630.00	180	\$630.00
Cu. Yds.	\$350.00	20	\$7,000.00	20	\$7,000.00
Lin. Ft.	\$50.00	300	\$15,000.00	0	\$0.00
Each	\$2,400.00	3	\$7,200.00	0	\$0.00
Each	\$250.00	3	\$750.00	0	\$0.00
Each	\$2,300.00	4	\$9,200.00	0	\$0.00
					ma 00
Each Each	\$700.00 \$600.00	4 3	\$2,800.00 \$1,800.00	0	\$0.00 \$0.00
	Acres Cu. Yds. Sq. Yds. Cu. Yds. Sq. Yds. Tons Tons Each Lin. Ft. Lin. Ft. Each Each Each Cu. Yds. Sq. Yds. Cu. Yds.	O 37+30 Ork yet to be completed. On the Definitive Plan last ed through: UNITS \$/UNIT Acres \$8,000.00 Cu. Yds. \$6.00 Sq. Yds. \$3.00 Each \$400.00 Sq. Yds. \$3.00 Cu. Yds. \$30.00 Sq. Yds. \$3.50 Tons \$110.00 Tons \$110.00 Each \$300.00 Lin. Ft. \$40.00 Lin. Ft. \$25.00 Each \$250.00 Each \$2,000.00 Each \$300.00 Cu. Yds. \$300.00 Cu. Yds. \$3.00 Sq. Yds. \$3.50 Cu. Yds. \$3.50.00	## ASE 4C	### RUCTION BUDGET HASE 4C D 37+30 Dork yet to be completed.	### AGE 4C D 37+30

WASTEWATER | STORMWATER | WATER | SITE DEVELOPMENT | SURVEYING

		\$/UNIT			CONSTRUC	TION
	UNITS		100% COST ESTIMATE		REMAIN'G - 12/22/16	
			QUANTITY	VALUE	QUANTITY	VALUE
WATER		A				
8" DI Pipe	Lin. Ft	\$70.00	420	\$29,400.00	0	\$0.00
Hydrants	Each	\$3,700.00	1	\$3,700.00	0	\$0.00
Water Service	Each	\$350.00	6	\$2,100.00	0	\$0.00
SEWER						
8" SDR 35 Sewer	Lin. Ft	\$52.00	300	\$15,600.00	0	\$0.00
Manholes	Each	\$3,000.00	3	\$9,000.00	0	\$0.00
Laterals: 6" SDR 35 PVC	Each	\$700.00	6	\$4,200.00	0	\$0.00
Sewer Brick Invert	Each	\$250.00	3	\$750.00	0	\$0.00
Sewer Manhole Rim & Cover	Each	\$750.00	3	\$2,250.00	0	\$0.00
ELECTRIC COMMUNICATIONS						
Electrical/CATV/Tel Conduit	Lin.Ft.	\$45.00	420	\$18,900.00	0	\$0.00
MISCELLANEOUS						
Bounds, Granite (Roadway)	Each	\$315.00	8	\$2,520.00	8	\$2,520.00
Acceptance Plans	Sheet	\$1,000.00	1	\$1,000.00	1	\$1,000.00
As Built Plans	Sheet	\$1,900.00	1	\$1,900.00	1	\$1,900.00
		Subtotal:		\$328,195.00		\$68,030.00
20% Contingency/Inflation:			ψ020,100.00		\$13,606.00	
PROJECT: BROOKMEADOW VILLAGE - PHASE 4C TOTAL:					\$81,636.00	
TROSEST. BROOKINEADOW VILLAGE - 1		(Rounded):			*	\$82,000.00
20% of "100% COS	T ESTIMATE	" (Rounded):	*	\$66,000.00		
* This estimate was prepared to assist the						
In accordance with Grafton Subdivision vary from this estimate.	Rules and Re	egulations, tr	e surety value	e established by the	ne Board may	
vary from this estimate.						